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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/724,787	12/01/2003	Gianluca Paladini	2002P19673 US01	1913	
Siemens Corp	7590 08/25/200 oration	EXAM	EXAMINER		
Intellectual Pr	operty Department	RICHER, AARON M			
170 Wood Av Iselin, NJ 088		ART UNIT	PAPER NUMBER		
,		2628			
			MAIL DATE	DELIVERY MODE	
			08/25/2009	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Advisory Action Before the Filing of an Appeal Brief

Application No.	Applicant(s)	
10/724,787	PALADINI, GIANLUCA	
Examiner	Art Unit	
AARON M. RICHER	2628	

	AARON M. RICHER	2628						
The MAILING DATE of this communication appe	ears on the cover sheet with the	correspondence add	ress					
THE REPLY FILED 06 August 2009 FAILS TO PLACE THIS A	PPLICATION IN CONDITION FOR	ALLOWANCE.						
 X The reply was filed after a final rejection, but prior to or on application, applicant must timely file one of the following application in condition for allowance; (2) a Notice of Appe for Continued Examination (RCE) in compliance with 37 Openiods: 	replies: (1) an amendment, affidavi eal (with appeal fee) in compliance	t, or other evidence, v with 37 CFR 41.31; or	vhich places the r (3) a Request					
a) The period for reply expiresmonths from the mailing								
b) The period for reply expires on: (1) the mailing date of this Advisory Action, or (2) the date set forth in the final rejection, whichever is late no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of the final rejection.								
Examiner Note: If box 1 is checked, check either box (a) or (MONTHS OF THE FINAL REJECTION. See MPEP 706.07(FIRST REPLY WAS FI	LED WITHIN TW					
Extensions of time may be obtained under 37 CFR 1.136(a). The date have been filled is the date for purposes of determining the period of valued 77 CFR 1.17(a) is calculated from: (1) the expiration date of the set forth in (b) above, if checket. Any reply received by the Office later may reduce any earned patient term adjustment. See 37 CFR 1.704(b) NOTICE OF APPEAL.	on which the petition under 37 CFR 1.1 tension and the corresponding amount shortened statutory period for reply origi than three months after the mailing dat	of the fee. The appropri- nally set in the final Office	ate extension fee te action; or (2) as					
 The Notice of Appeal was filed on A brief in comp filing the Notice of Appeal (37 CFR 41.37(a)), or any exter 	nsion thereof (37 CFR 41.37(e)), to	avoid dismissal of the	s of the date of appeal. Since					
Notice of Appeal has been filed, any reply must be filed w AMENDMENTS	ithin the time period set forth in 37	CFR 41.37(a).						
The proposed amendment(s) filed after a final rejection, I	but prior to the date of filing a brief	will not be entered be	icalise					
(a) They raise new issues that would require further co			cause					
(b) They raise the issue of new matter (see NOTE belo								
(c) They are not deemed to place the application in better form for appeal by materially reducing or simplifying the issues for								
appeal; and/or (d) ☐ They present additional claims without canceling a ∈		nated alabase						
NOTE: (See 37 CFR 1.116 and 41.33(a)).	corresponding number of finally reje	cted claims.						
4. The amendments are not in compliance with 37 CFR 1.12	21 See attached Notice of Non-Co	mnliant Amendment (DTOL-324)					
5. Applicant's reply has overcome the following rejection(s):		inpliant / information (1 102 024).					
 Applicant's reply has detectine the following rejection(s): <u>see Community Street</u>. Newly proposed or amended claim(s) would be allowable if submitted in a separate, timely filed amendment canceling to non-allowable claim(s). 								
7. X For purposes of appeal, the proposed amendment(s): a)		I be entered and an e	xplanation of					
how the new or amended claims would be rejected is prov The status of the claim(s) is (or will be) as follows:	vided below or appended.							
Claim(s) allowed: 10 and 23.								
Claim(s) objected to: 8 and 21.								
Claim(s) rejected: <u>1-7.9.11-20.22 and 24-27</u> .								
Claim(s) withdrawn from consideration: AFFIDAVIT OR OTHER EVIDENCE								
The affidavit or other evidence filed after a final action, but	t before or on the date of filing a No	tion of Annual will no	he entered					
because applicant failed to provide a showing of good and was not earlier presented. See 37 CFR 1.116(e).								
The affidavit or other evidence filed after the date of filing entered because the affidavit or other evidence failed to compare the affidavit or other evidence failed to compare the file of th	vercome all rejections under appea	al and/or appellant fail	s to provide a					
showing a good and sufficient reasons why it is necessary 10. The affidavit or other evidence is entered. An explanation								
REQUEST FOR RECONSIDERATION/OTHER	ii oi tile status oi tile cialilis alter ei	itry is below or attach	eu.					
 The request for reconsideration has been considered bu <u>See Continuation Sheet.</u> 	t does NOT place the application in	condition for allowan	ce because:					
12. Note the attached Information Disclosure Statement(s). (PTO/SB/08) Paper No(s).								
13. Other:								
/Aaron M Richer/								
	Examiner, Art Unit 2628							

Continuation of 5. Applicant's reply has overcome the following rejection(s): 35 USC 101 rejection of claims 14-20 and 22-27 and 112 rejection of claims 1-9 and 11-13.

Continuation of 11. does NOT place the application in condition for allowance because: Examiner notes that examiner has already responded to the non-italicized portions of applicant's arguments in previous Office Actions. Applicant further argues that Halmann is not configured for reverse lookup (conversion from Cartesian to polar). However, examiner notes that regardless of how lookup occurs, Halmann is identifying ultrasound data as a function of conversion values and interpolates display values from the data, as claimed.

Applicant further argues neither Selier not Halmann connects the concept of avoiding scan conversion with reverse lookup. However, 35 USC 103 does not require every limitation to appear in the same reference. Since Selier teaches avoiding ten conversion with the advantage of enhancing efficiency, and Halmann discloses lookup between ultrasound and display data, the references combine to teach the limitations of the claim.

Applicant further argues that Seiler identifies voxels that are or are not visible regardless of display coordinates. However, claim 1 does not specify that the display coordinates are involved in the visibility decision.

Applicant further argues that Seiler does not provide a way for implementing the visibility decision in Halmann and could only be used in the rendering part of Halmann. However, examiner notes that it is not the actual bodily incorporation of the references that is relevant here. Rather, the teachings of Seiler could be brought in to the scan conversion of Halmann to improve efficiency.

Applicant further argues that claim 1 describes scan conversion during volume rendering rather than before as taught by Halmann. However, it appears from col. 5, lines 35-40 that Halmann considers the entire process the "rendering" process, since scan conversion is handled in the volume rendering module.

Applicant further argues that Seiler is relying on volume data that already exists before rendering takes place, but, as noted above, Halmann appears to consider the entire scan conversion plus display process to be part of "rendering".

Applicant further argues that claim 1 is implicitly view-dependent, but even if this is the case, it appears that view-independent techniques could still be used in a view-dependent invention. Determining visibility is done in both cases.

As to claim 2, applicant argues that the Cartesian coordinates in claim 2 are converted to Polar coordinates, but this has been addressed in examiner's comments regarding claim 1.

As to claim 3 and 16, applicant argues that Halmann does not provide for identifying acquired data by input of determined display coordinates, but this has also been addressed in examiner's comments regarding claim 1.

As to claims 5 and 18, applicant argues that Halmann treats rendering and scan conversion separately, However, examiner notes that Halmann considers the entire process rendering as noted above. Similar comments can apply to the arguments regarding claims 26, 4, 6, and 19

As to claims 9 and 22, applicant argues that Swerdloff does not teach a method for selective scan conversion of volume data. However, such selective scan conversion is not claimed in claim 9. It is further noted that the combination of Seiler with Halmann and Swerdloff would introduce such selective scan conversion of only visible portions of a volume, as described in the rejection to claim 1.

As to claim 12, applicant argues that a flag and integer sum efficiently track visibility for a reverse lookup. However, applicant has not demonstrated why a user would use such specific variables and not others, such as floating point variables, etc. Since other variables would appear to work equally well, the use of an integer sum and flag appear to be design choices.